

# MID-RANGE CLASS

**UNI 24x40**  
**UNI 36x50**

## Performance

Compact design, high engine gross power, higher torque and rotation rise, stronger components and excellent maneuverability ensures that the UNI 24x40 and UNI 36x50 deliver a solid performance.

## Power

Powerful hydraulic system delivers excellent torque and rotating forces to drill in most demanding ground. High volume mud pump and powerful Rineer motors, Double Rack & Pinion design result in fast cycle times.

## Design

Representing a long-standing commitment to quality and performance, this rugged, powerful HDD machines are designed and built for mid-range directional drilling. Various optional features are available to meet all your needs and requirements.

## Productivity

World class operator station fitted with electronics and hydraulic controls for low effort operation and increased productivity. Optional cabin provides a quiet, secure working environment. Large window openings offer excellent visibility in all directions. Enclosed design provides temperature-controlled air circulation with air-conditioned comfort and a more comfortable working environment.

## Service

Many convenient service features such as hinged service doors, easily accessible scheduled maintenance points, diagnostic ports and a integrated cooling system make servicing easy. Reliable components reduce the risk of leaks and breakdowns, helping minimize down-time and reducing operating costs.



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**Diagnostic Ports**  
Easily accessible Diagnostic Ports allow for quick measure and troubleshooting of the hydraulic system.

### Cabin

Optional larger, spacious cabin provides operator comfort and improved visibility. An intuitive instrument panel layout for ease of operation reduces operator fatigue.

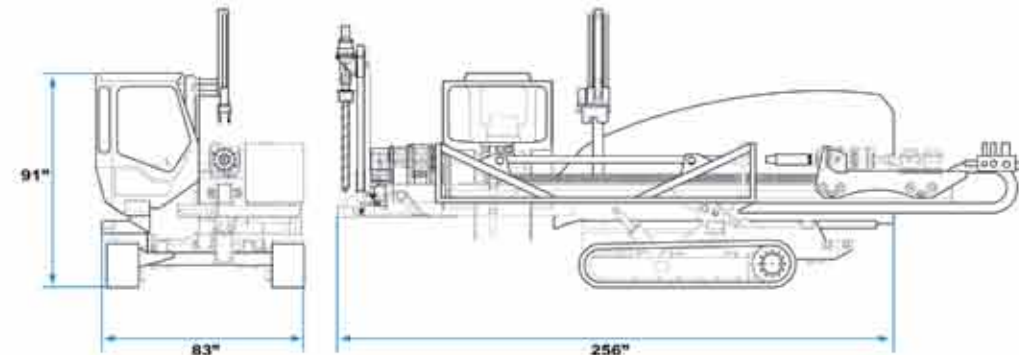
**Video Monitoring System**  
Integrated Video Monitoring System (VMS) provides the operator with additional view of the rack and the carriage. This eliminates unnecessary downtime, additional manpower on site, and speeds up the working cycle.

### Rod Loader

Over-the-top automatic rod loader makes it easy to operate and load rods on the fly. Open architecture and design makes it easy to service and perform maintenance.

### Double Rack & Pinion

Designed to generate highest trust and pullback force. The Double Rack & Pinion also provides highest precision, while at the same time providing high reliability and minimal maintenance.



	UNI 24x40		UNI 36x50	
Specification	U.S.	Metric	U.S.	Metric
Thrust Force:	24,000 lbs / 30,000 lbs <sup>1</sup>	10.8 ton / 13.6 ton	36,000 lbs	16.3 ton
Pullback Force:	24,000 lbs / 30,000 lbs <sup>1</sup>	10.8 ton / 13.6 ton	36,000 lbs	16.3 ton
Rotation (Low):	150 rpm		110 rpm	
Rotation (High):	300 rpm		220 rpm	
Torque (Low):	4,000 ft-lb	5,423 N-m	5,000 ft-lb	6,779 N-m
Torque (High):	2,000 ft-lb	2,711 N-m	2,500 ft-lb	3,389 N-m
Entry Angle:	10-18 degrees		10-18 degrees	
Engine:	John Deere		John Deere	
Fuel:	Diesel		Diesel	
Gross Power:	125 hp (Turbo) / 140 hp (Turbo) <sup>1</sup>	93.2 kW (Turbo) / 104.4 kW (Turbo) <sup>1</sup>	140 hp (Turbo)	104.4 kW (Turbo)
Rod Length:	10 ft	3.04 m	10 ft	3.04 m
Rod Diameter:	2.063 inch	5.24 cm	2.375 inch	6.03 cm
Rod Basket:	40		40	
Rod Loader:	Automatic Over-the-Top		Automatic Over-the-Top	
Mud Pump:	Kerr		Kerr	
Flow Rate:	1,200 psi	82.73 bar	1,200 psi	82.73 bar
Pressure Rate:	50 gpm	189.2 l/min	70 gpm	264.9 l/min
On-Board Locating System:	DCI		DCI	
Integrated MFD:	<input type="checkbox"/>		<input type="checkbox"/>	
Length:	240 inch	609.6 cm	256 inch	650.2 cm
Width:	82 inch	208.2 cm	83 inch	210.8 cm
Height:	91 inch	231.4 cm	91 inch	231.4 cm
Weight:	12,500 lb	5.67 ton	13,800 lb	6.26 ton

Integrated MFD display must included in conjunction with a Cabin option  
1 Upgradable to 140 hp engine and 30,000 lbs thrust force

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### Mud Pump

Both UNI 24x40 and UNI 36x50 come equipped with on-board Kerr mud pump. This drilling fluid management unit supplies the rig with quality and stable mud during the operational cycle. The build-in mud pump reduces transportation problems and increases maneuverability of the horizontal drilling machine.



### Wrench & Centralizer

The wrench system features Active Centralizer System (ACS) to reduce wear on drill stems, heavy-duty replaceable jaws, open-top architecture for additional visibility.



### Rod Support System

This automatic system provides support for a drill stem during a drilling working cycle. The Rod Support System (RSS) automatically lowers and raised when need. It makes loading and unloading of a drill stem fast and effortless.



### Tracks

These heavy-duty track provide high traction control and maneuverability practically on any surface. Designed to last and withstand high rates of wear and tear.



### Back Steakdown

Two independent back steakdowns provide additional stability and support during drilling cycle. The steakdown system raises the rig and shift the pressure point to the front of the rig. Optional single steakdown system is available.

# MID-RANGE CLASS

**UNI 45x60**  
**UNI 60x70**

## Power

High drilling forces and fast cycle times maximize productivity without compromising controllability. Turbocharged John Deere engines give higher power and maintain strong performance during most demanding working cycles. High drilling forces give power through even the most compacted and rocky ground with smooth control and responsive hydraulics that deliver productivity that our customers demand.

## Design

The UNI 45x60 and UNI 60x70 deliver high performance with outstanding versatility. Optional spacious cabin with joystick control keeps you comfortable throughout the work day, allowing you to get more done. The Rod Loader System delivers fast loading and unloading of drill stems with superior control. Intuitive operator's controls are easy to use for greater job accuracy and efficiency.

## Hydraulic System

Smooth responsive hydraulic system gives the level of control demanded by the customer in any application, from drilling in sand to rocky soil. Double Rack & Pinion design combined with fast and powerful Rineer motors result in world class productivity and performance.

## Service

Robust, reliable and easily serviceable are the key attributes of any Universal HDD's rig. Full steel body cover protects from potential damage to key components. Easy access to all daily service points are accessed through the rear hood and side covers.

## Ergonomic Layout

The controls and layout of the cabin are designed to make it as easy to operate. Quick, easy to read and simple to operate, the controls and gauges on all Universal HDD's rigs allow the operator to concentrate on production.



